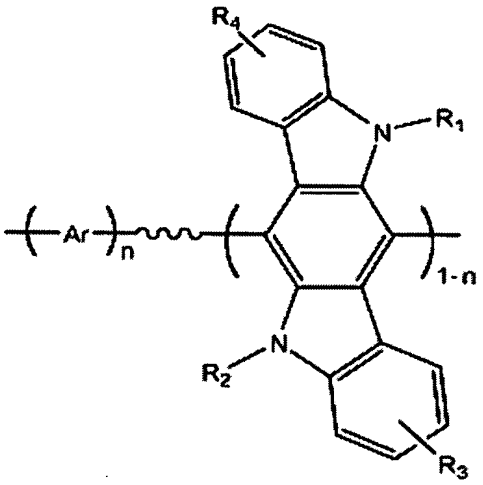
AMENDMENTS TO THE CLAIMS

Following is a listing of all claims in the present application, which listing supersedes all previously presented claims:

Listing of Claims:

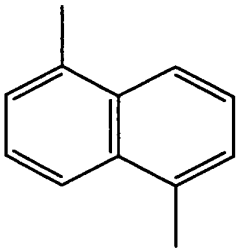
1. (Original) A polymer represented by formula 1:



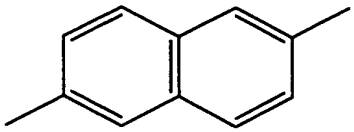
<Formula 1>,

wherein Ar is selected from the group consisting of a substituted or unsubstituted C_{6-30} aryl group and a substituted or unsubstituted C_{2-30} heteroaryl group; R_1, R_2, R_3 and R_4 are independently a hydrogen atom, a substituted or unsubstituted C_{1-30} alkyl group, a substituted or unsubstituted C_{1-30} alkoxy group, a substituted or unsubstituted C_{6-30} aryl group, a substituted or unsubstituted C_{6-30} arylalkyl group, a substituted or unsubstituted C_{6-30} aryloxy group, a substituted or unsubstituted C_{2-30} heteroaryl group, a substituted or unsubstituted C_{2-30} heteroarylalkyl group, a substituted or unsubstituted C_{2-30} heteroaryloxy group, a substituted or unsubstituted C_{5-20} cycloalkyl group, and a substituted or unsubstituted C_{5-30} heterocycloalkyl group; and n is a real number between 0.01 and 0.99.

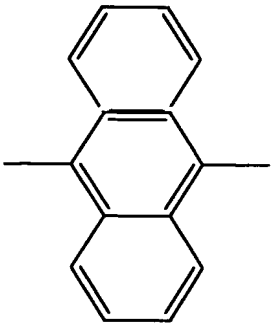
2. (Original) The polymer of claim 1, wherein in formula 1, the arylene (Ar) unit in the main chain of the polymer is a group represented by one or more formula selected from the group consisting of:



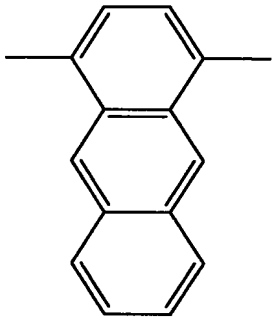
(1a)



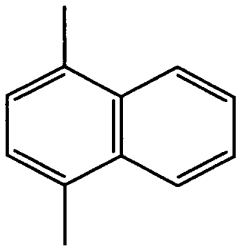
(1b)



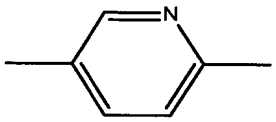
(1c)



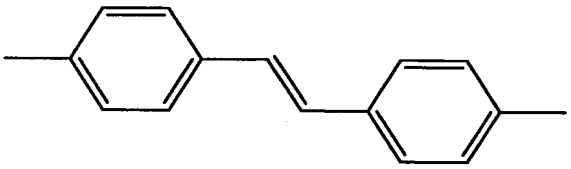
(1d)



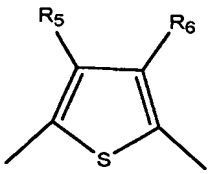
(1e)



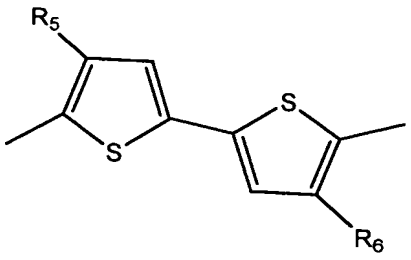
(1f)



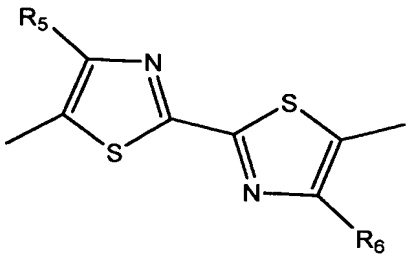
(1g)



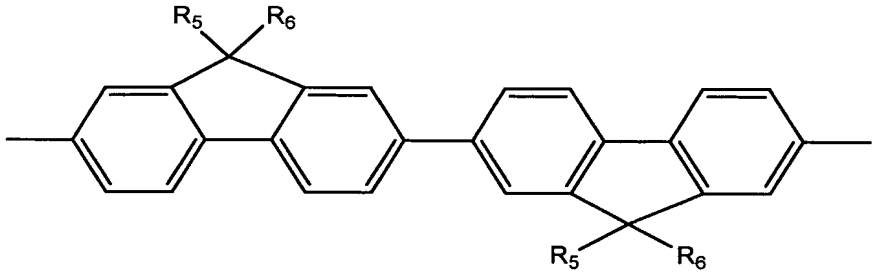
(1h)



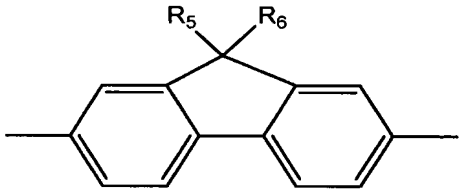
(1i)



(1j)



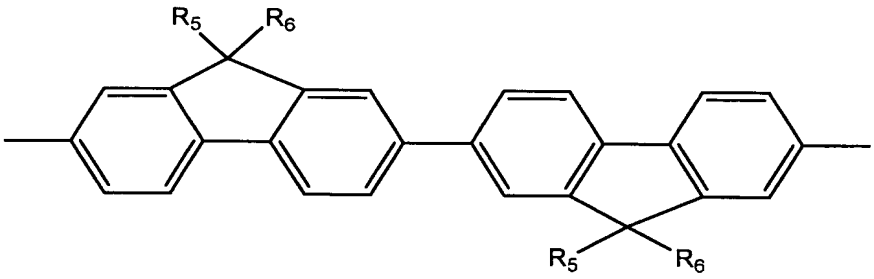
(1k)



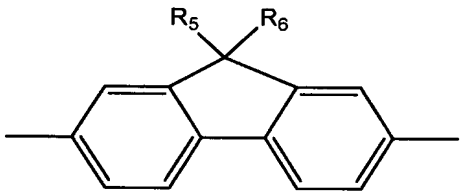
(1m)

wherein R_5 and R_6 are independently selected from the group consisting of a hydrogen atom, a substituted or unsubstituted C_{1-12} alkyl group, a substituted or unsubstituted C_{1-12} alkoxy group and a substituted or unsubstituted amino group.

3. (Original) The polymer of claim 1, wherein the arylene (Ar) unit in the main chain of the polymer has an alkyl fluorene structure as represented by formula 1k or 1m,



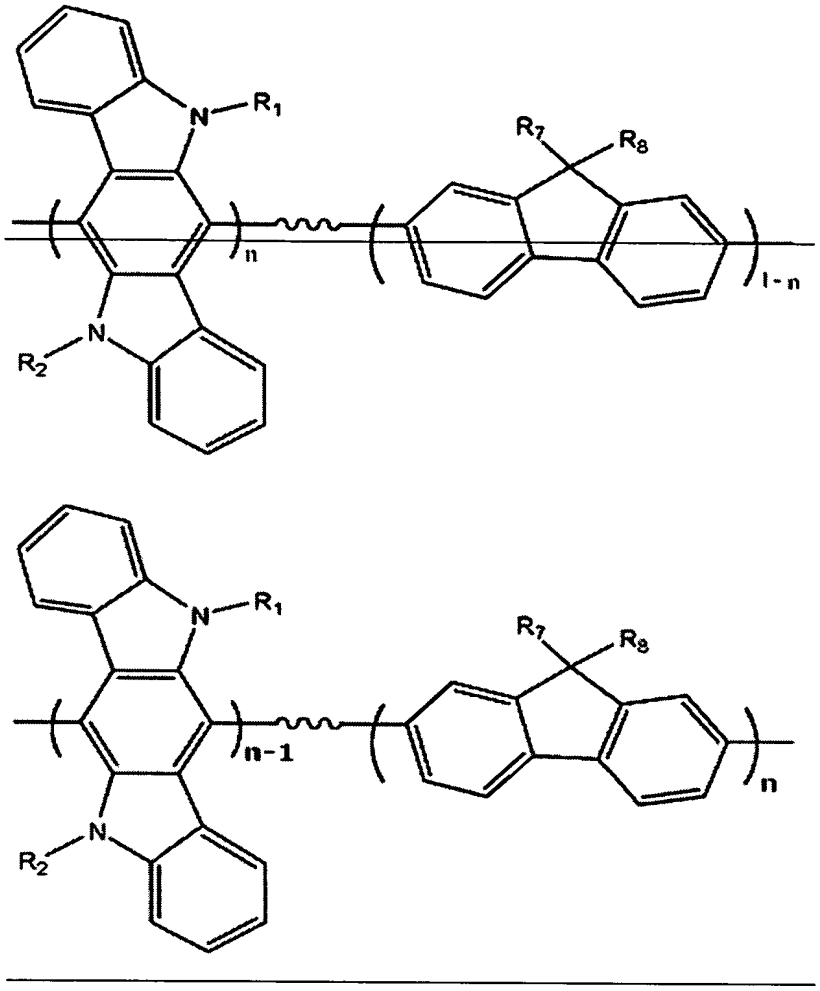
(1k)



(1m)

4. (Original) The polymer of claim 1, wherein the polymer has a weight average molecular weight within the range of from about 10,000 to about 200,000 and a molecular weight distribution of 1.5 to 5.

5. (Currently Amended) The polymer of claim 1, wherein the polymer is a compound represented by formula 2:



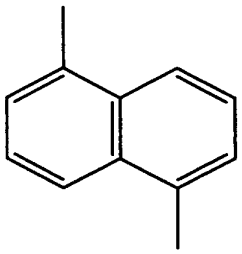
<Formula 2>

wherein R_1, R_2, R_7 and R_8 are independently a C_{1-12} alkyl group, and n is a real number between 0.01 and 0.99.

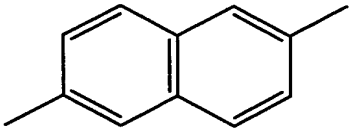
6. (Original) An organic EL device comprising an organic layer positioned between a pair of electrodes, the organic layer comprising the polymer of claim 1.

7. (Original) The organic EL device of claim 6, wherein the organic layer is an emissive layer or a hole transport layer.

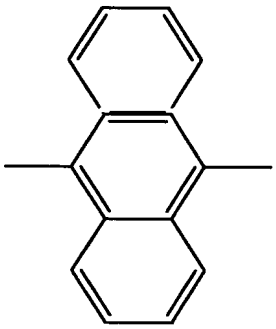
8. (Original) The organic EL device of claim 6, wherein in formula 1, the arylene (Ar) unit in the main chain of the polymer is a group represented by one or more formula selected from the group consisting of:



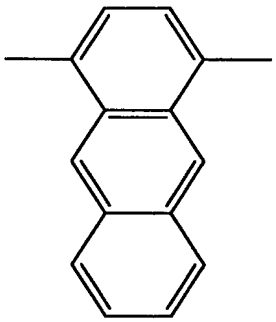
(1a)



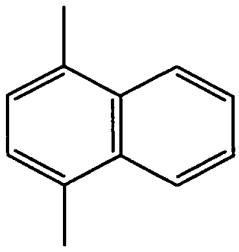
(1b)



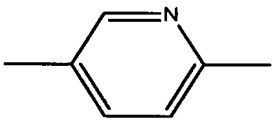
(1c)



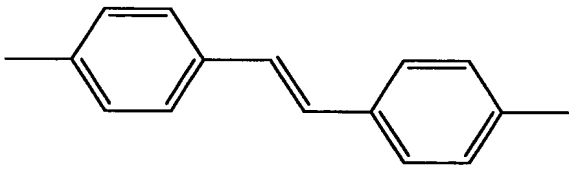
(1d)



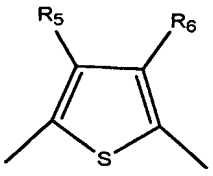
(1e)



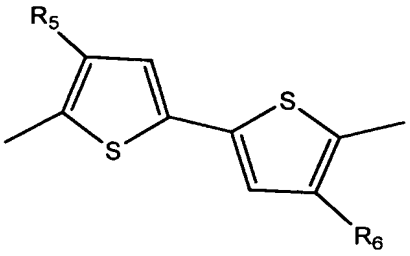
(1f)



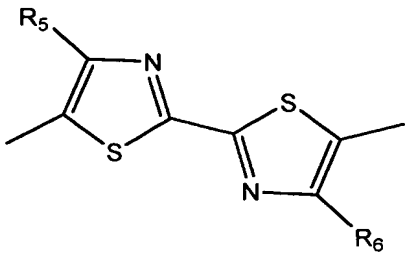
(1g)



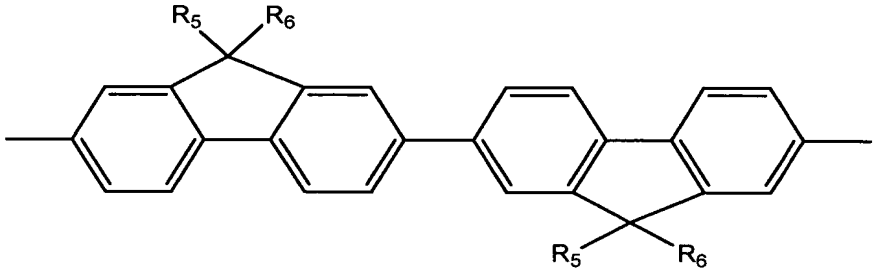
(1h)



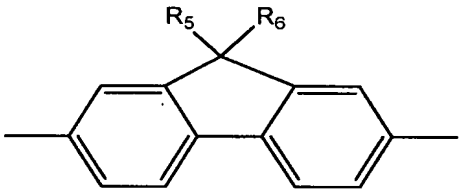
(1i)



(1j)



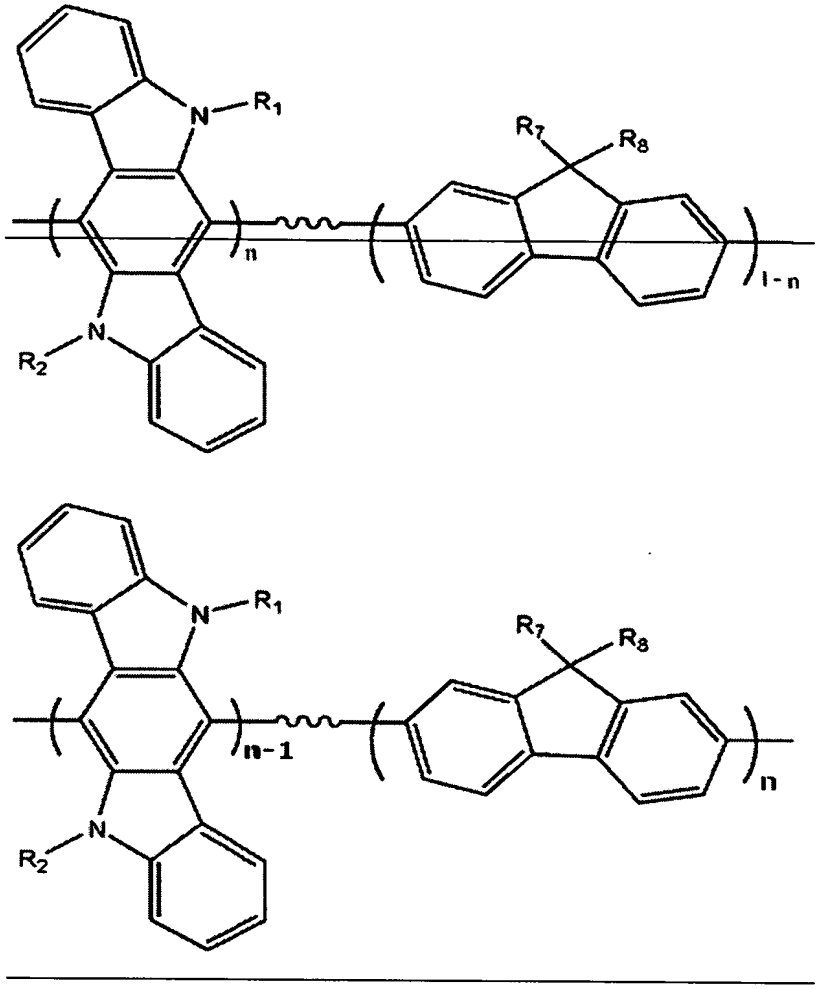
(1k)



(1m)

wherein R_5 and R_6 are independently selected from the group consisting of a hydrogen atom, a substituted or unsubstituted C_{1-12} alkyl group, a substituted or unsubstituted C_{1-12} alkoxy group and a substituted or unsubstituted amino group.

9. (Currently Amended) The organic EL device of claim 6, wherein the polymer is a compound represented by formula 2:



<Formula 2>,

wherein R_1, R_2, R_7 and R_8 are independently a C_{1-12} alkyl group, and n is a real number between 0.01 and 0.99.